

FIG. 1

09870000 041304
T02F50 86062860

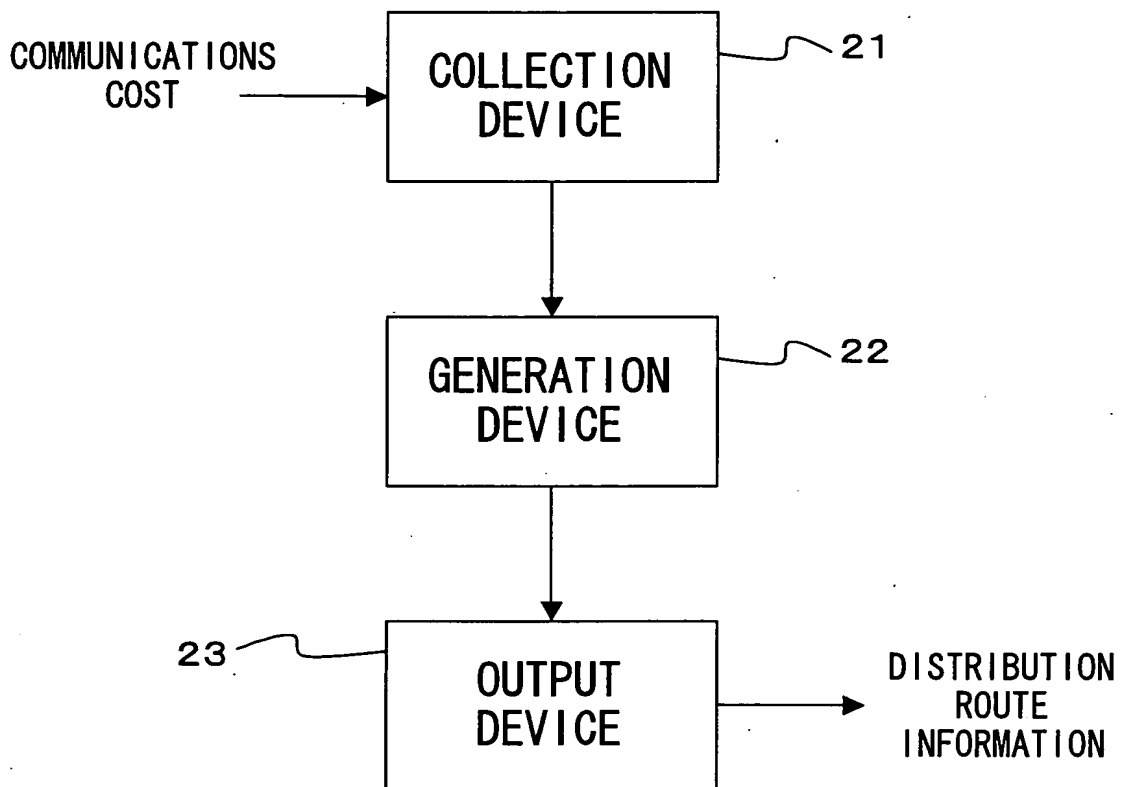


FIG. 2A

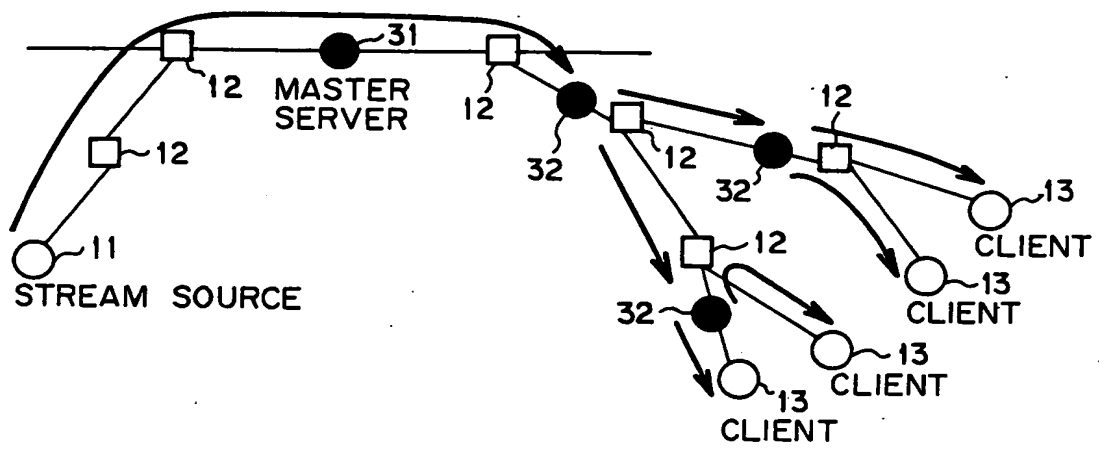


FIG. 2B

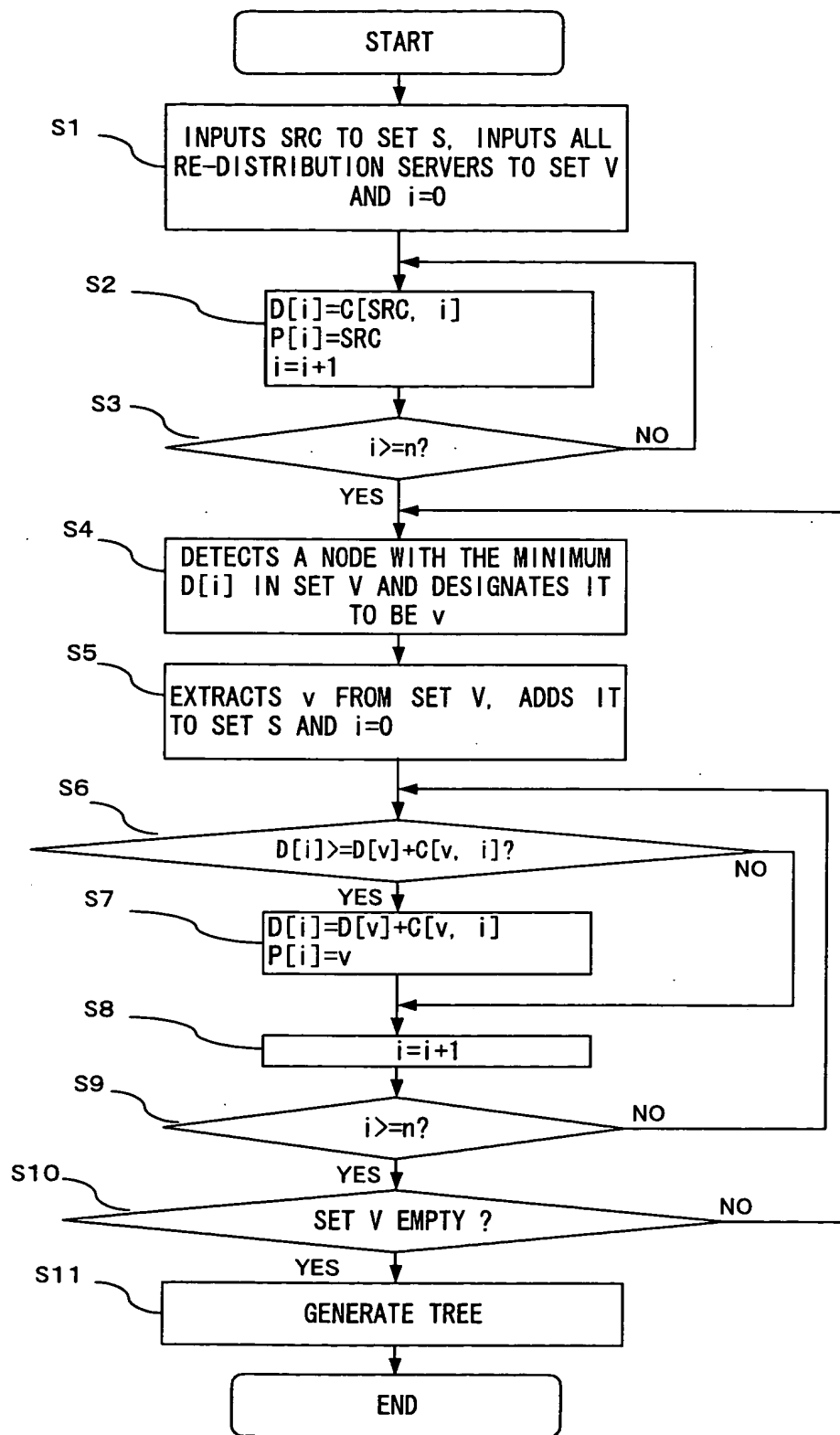


FIG. 3

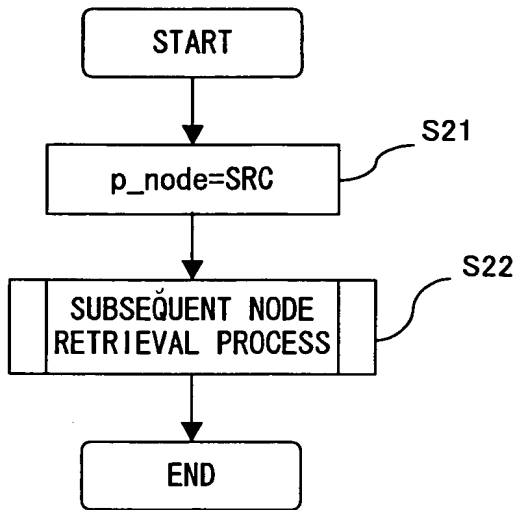


FIG. 4

FIG. 50 80002800

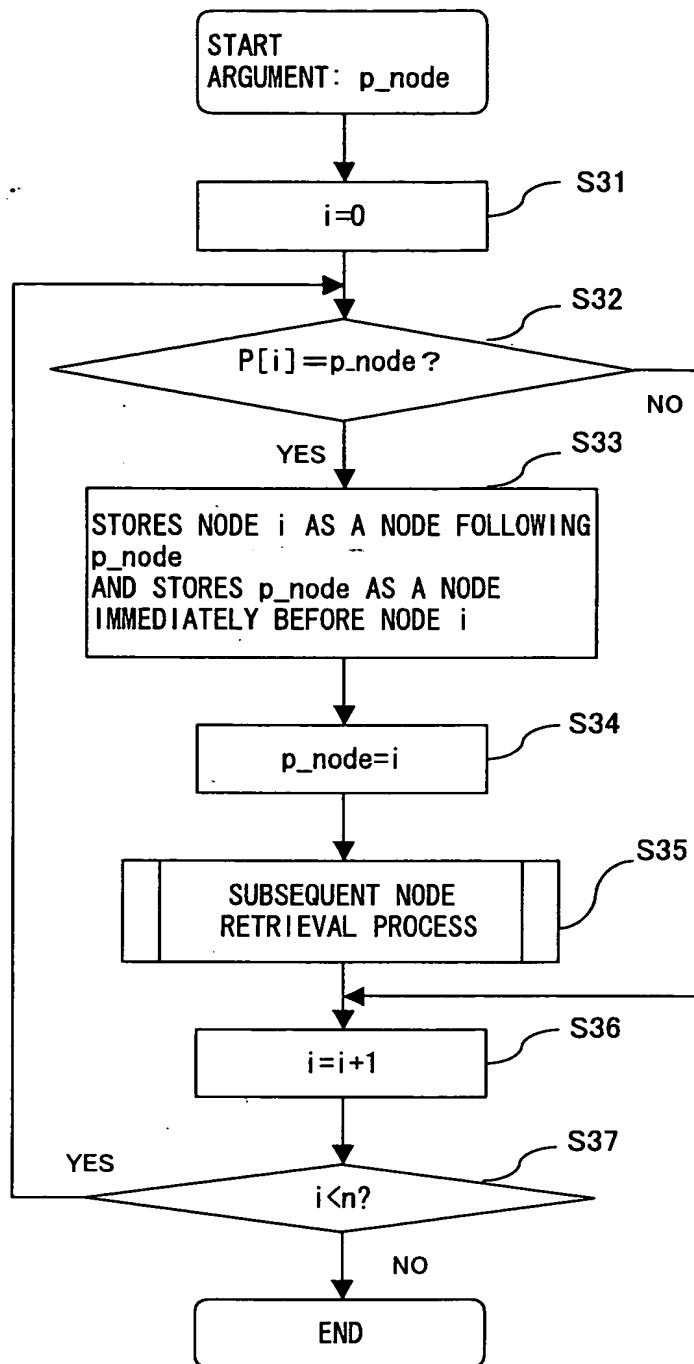


FIG. 5

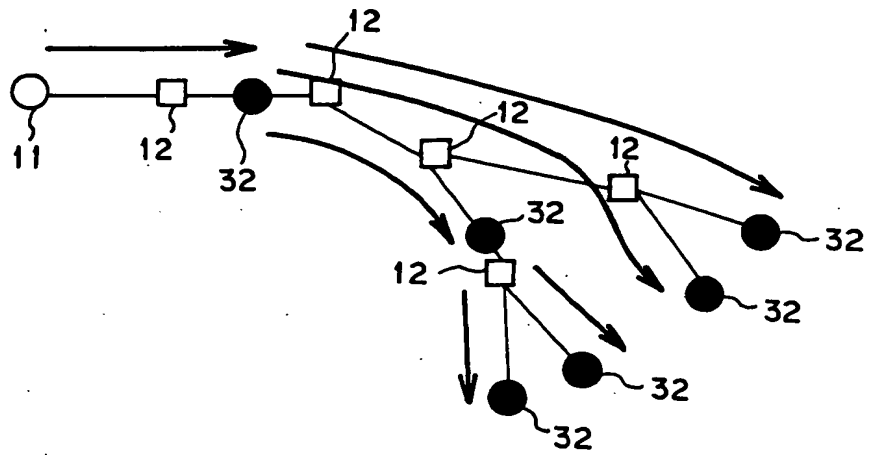


FIG. 6

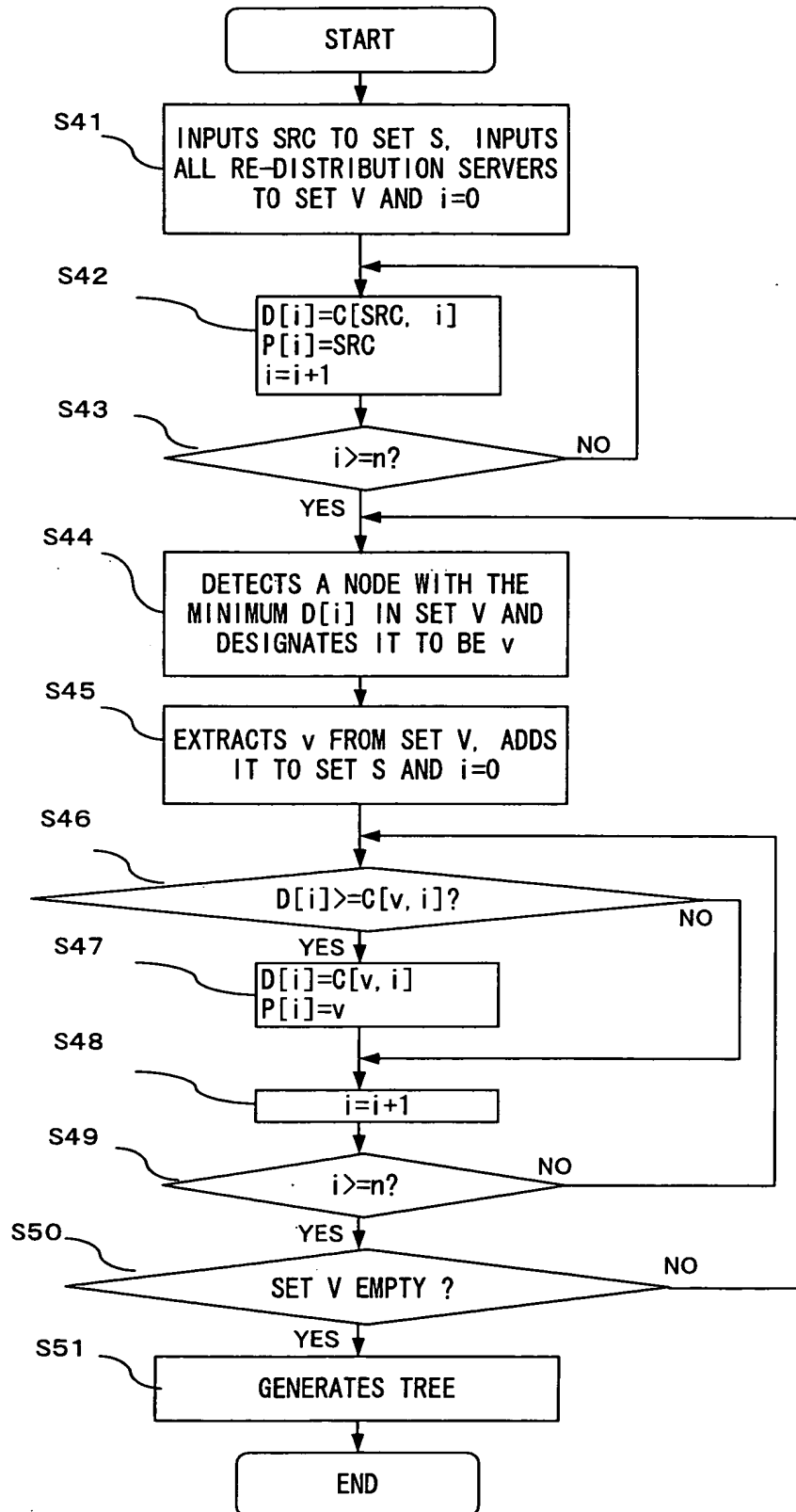


FIG. 7

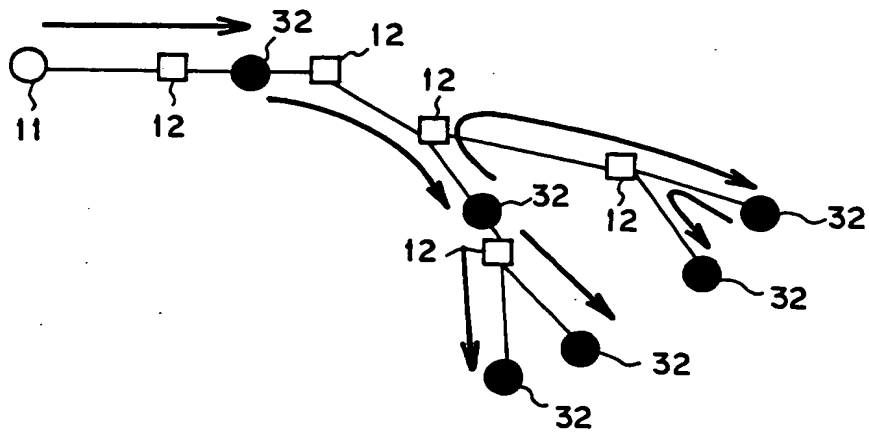


FIG. 8

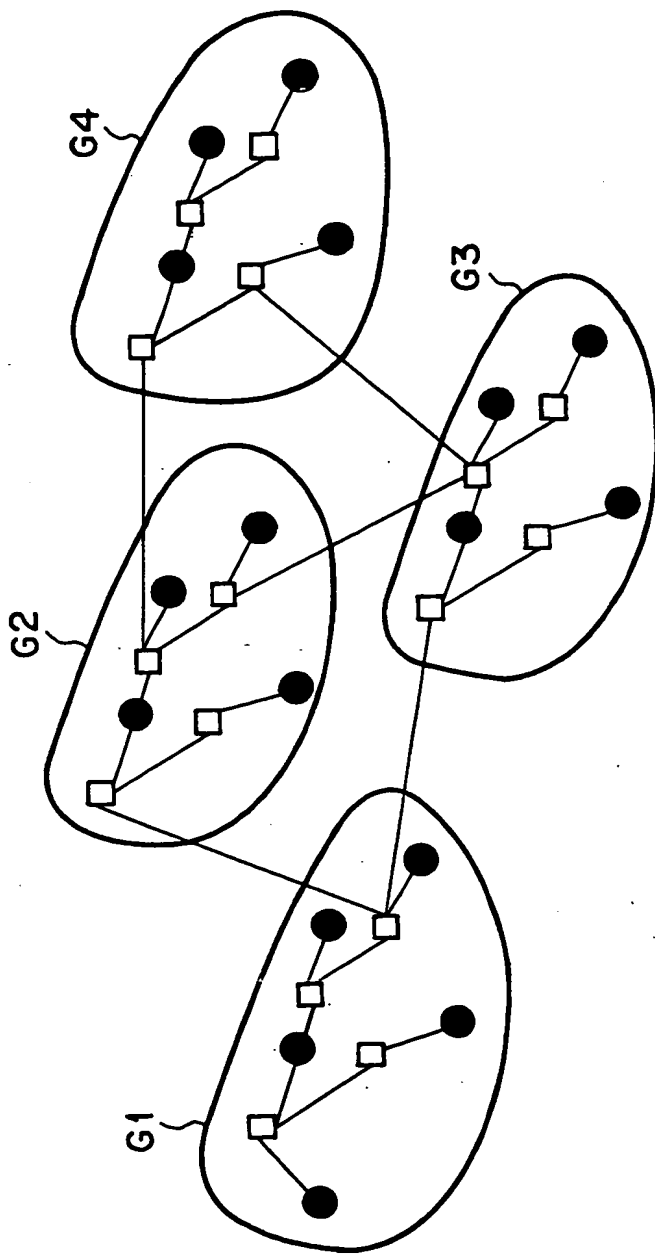


FIG. 9

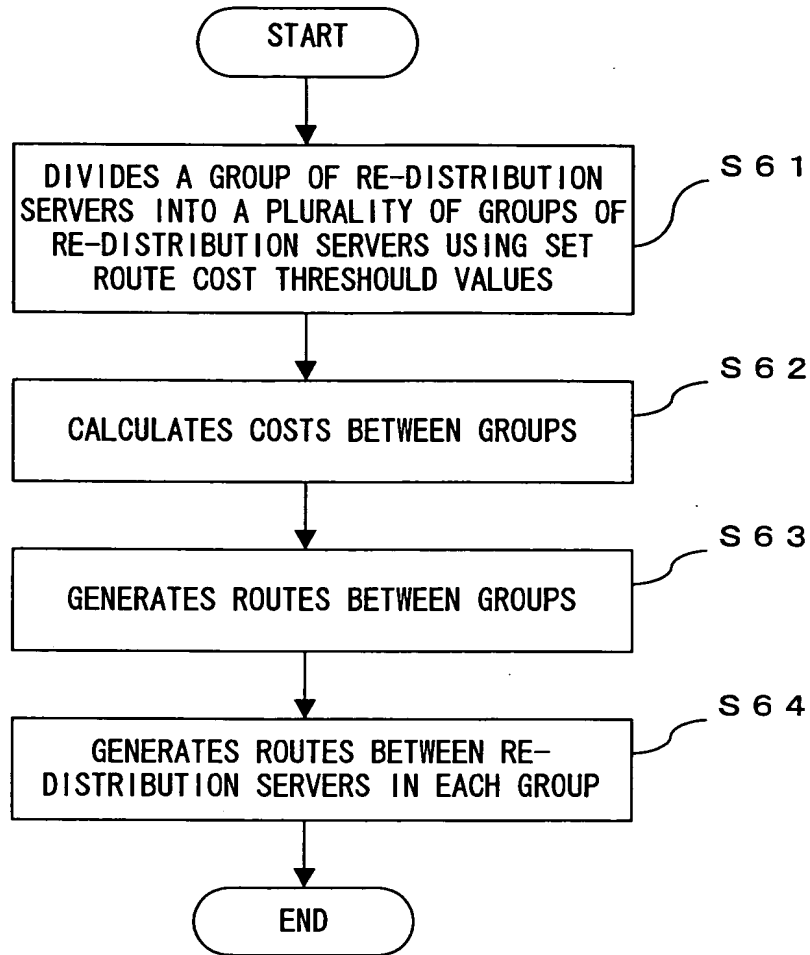


FIG. 10

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graph TD
    START([START]) --> S71[i=0, V=Φ, T=Φ AND  
INPUTS ALL NODES TO SET  
V]
    S71 --> S72[Si=Φ, EXTRACTS AN  
ARBITRARY NODE FROM SET  
V AND ADDS IT TO SET T]
    S72 --> S73[EXTRACTS AN ARBITRARY  
NODE j FROM SET V AND  
ADDS IT TO SET T]
    S73 --> S74{IS THERE NODE k  
THAT MEETS C[j, k]<COST THRESHOLD  
VALUE IN THE ELEMENTS OF  
SET V?}
    S74 -- YES --> S75[EXTRACTS NODE k FROM  
SET V AND ADDS IT TO  
SET T]
    S75 --> S74
    S74 -- NO --> S76{IS SET  
T EMPTY?}
    S76 -- YES --> S77{IS SET  
V EMPTY?}
    S77 -- YES --> END([END])
    S77 -- NO --> S78[i = i + 1]
    S78 --> S72

```

FIG. 11

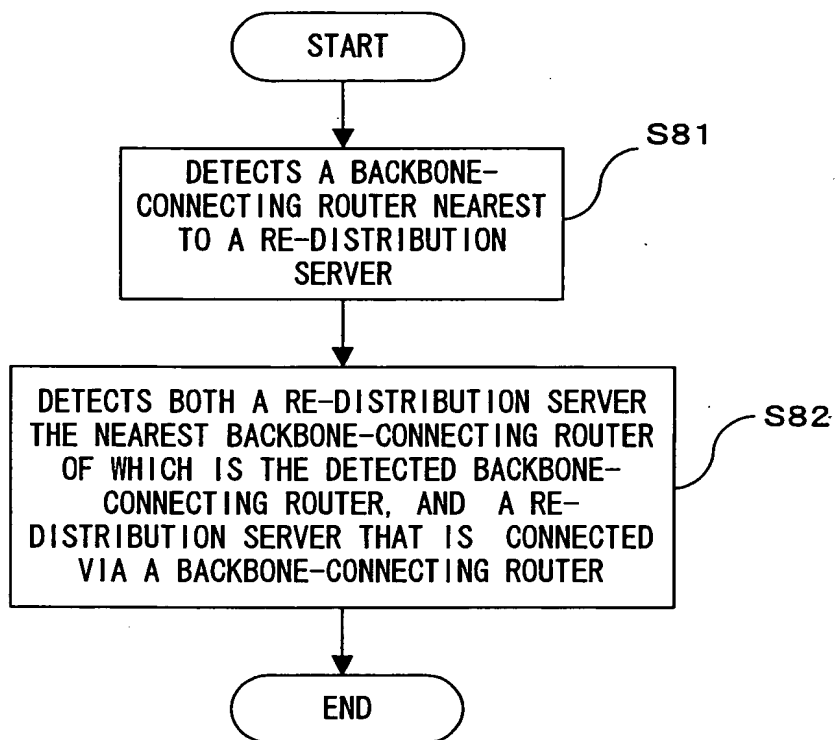


FIG. 12

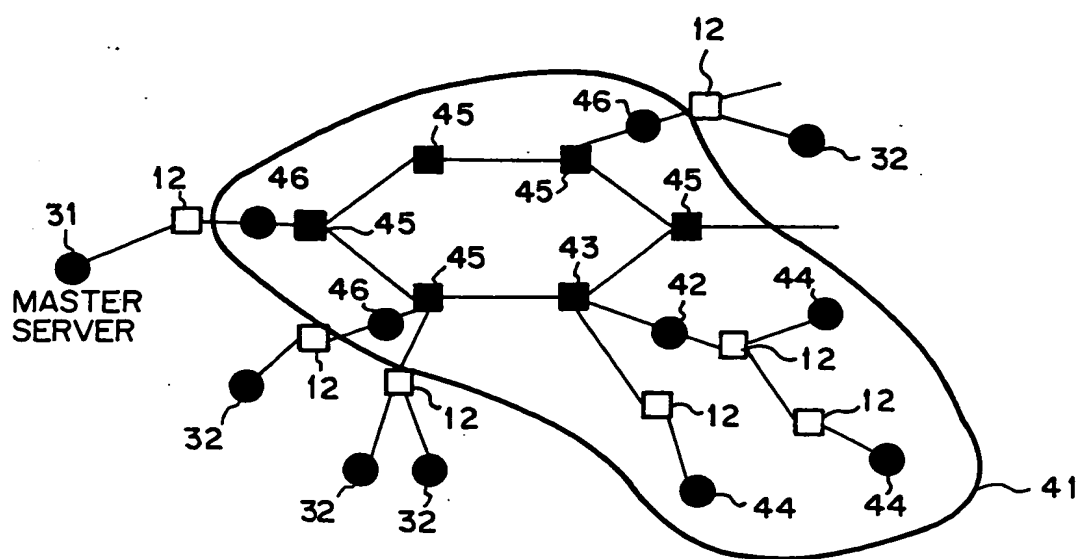


FIG. 13

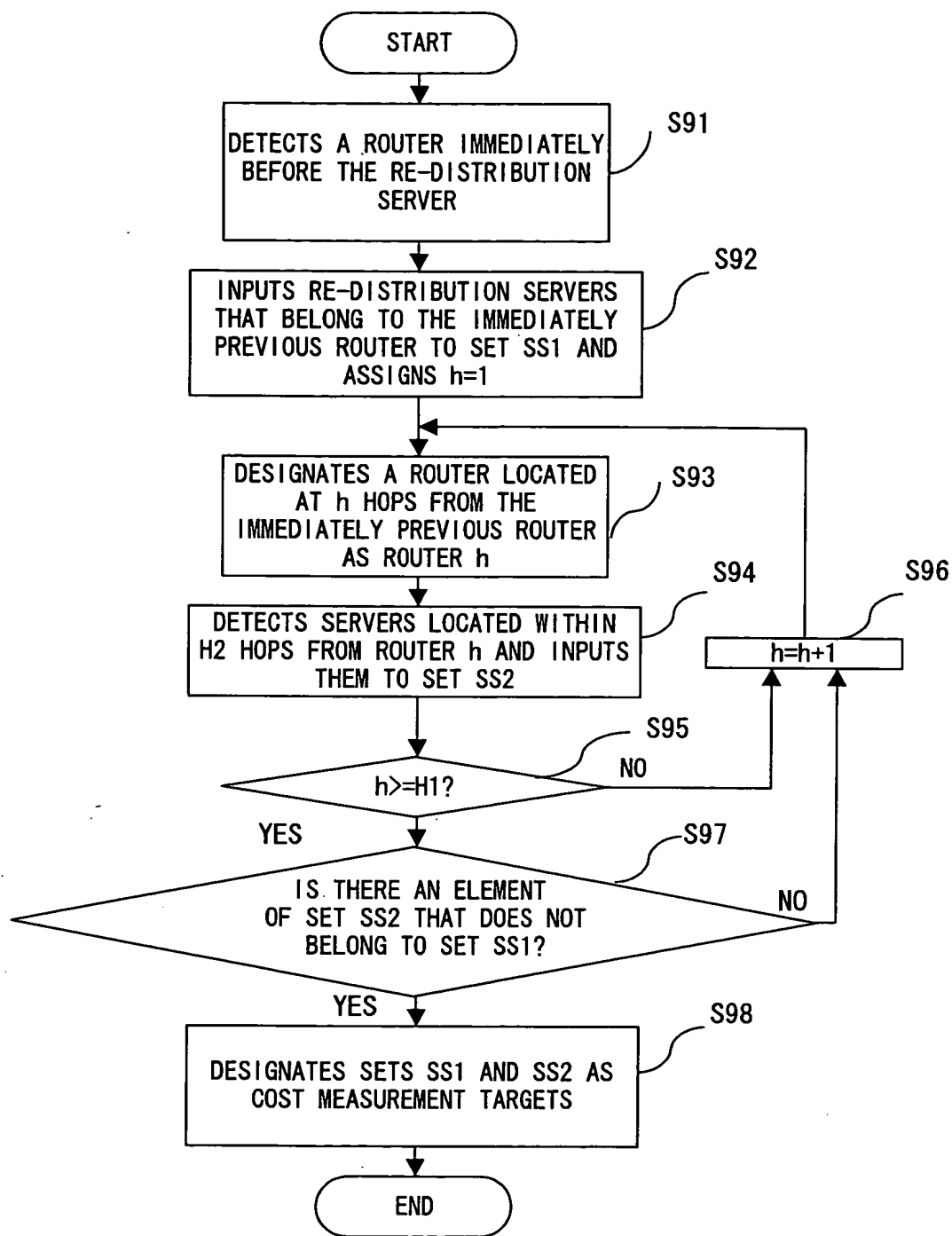


FIG. 14

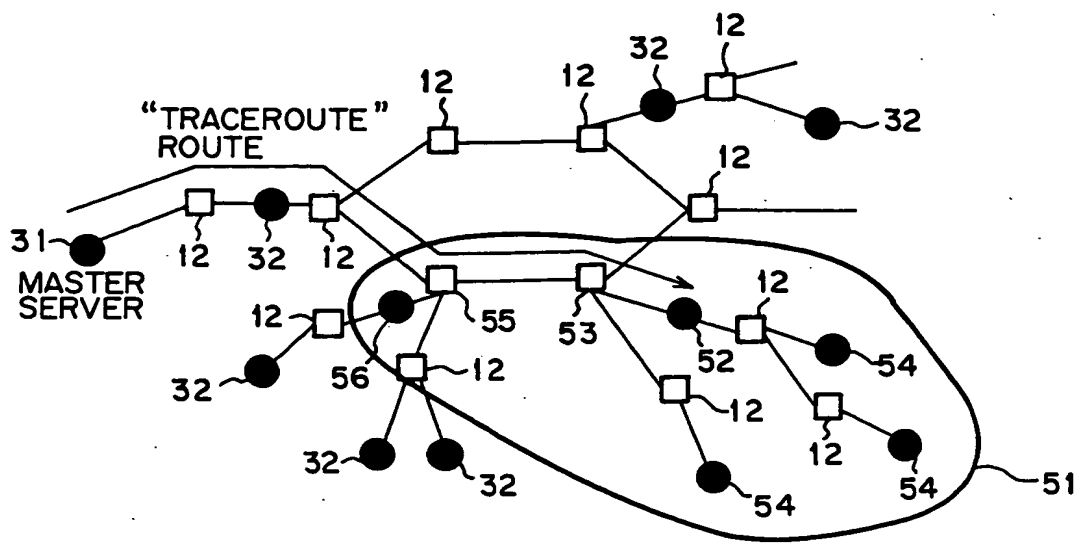


FIG. 15

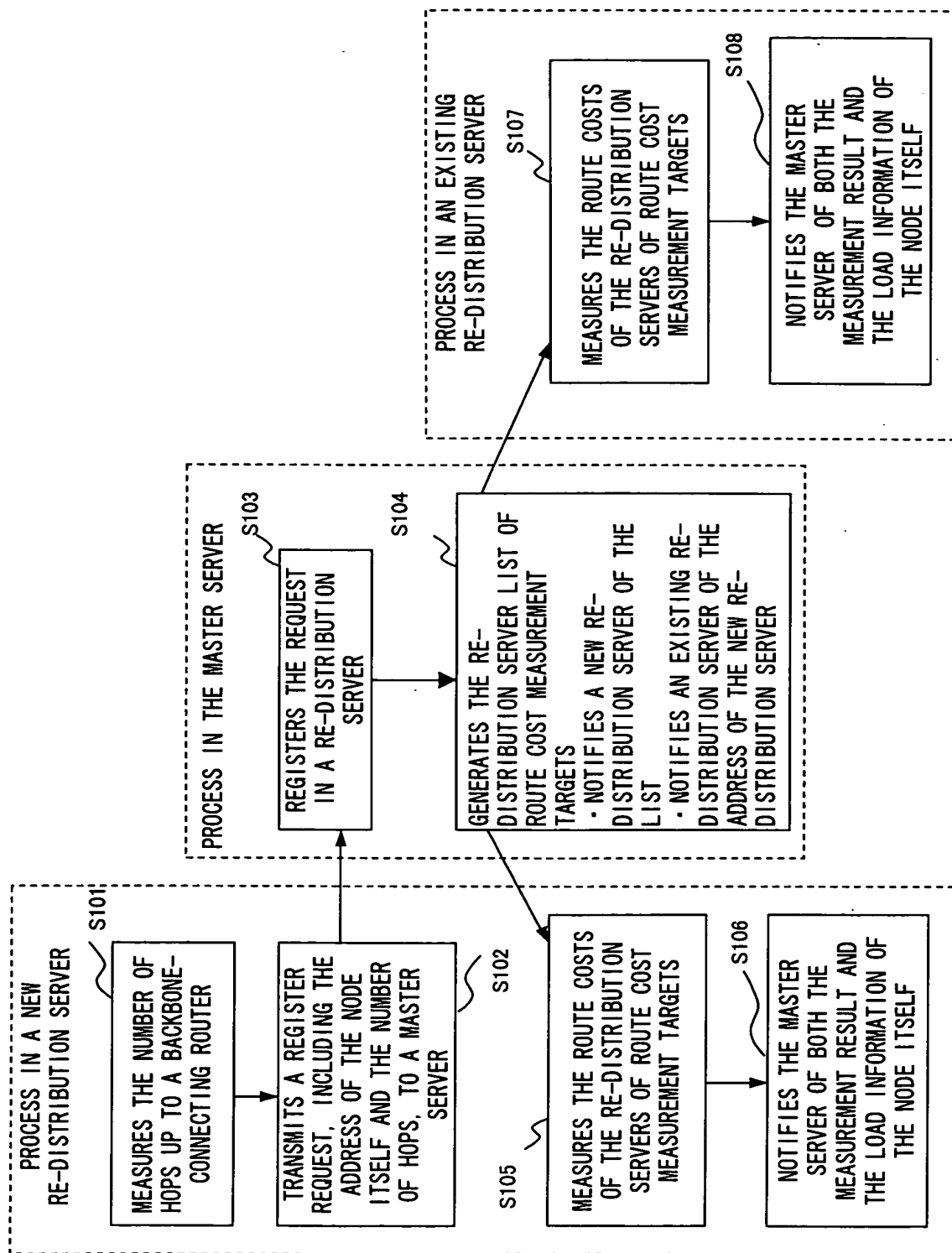


FIG. 16

```
graph TD; subgraph "PROCESS IN A RE-DISTRIBUTION SERVER"; S111[TRANSMITS A REGISTRATION DELETE REQUEST TO A MASTER SERVER]; end; subgraph "PROCESS IN THE MASTER SERVER"; S112["- DELETES INFORMATION ABOUT THE RELEVANT RE-DISTRIBUTION SERVER  
- RE-GENERATES AND DISTRIBUTES A DISTRIBUTION ROUTE TREE  
- TRANSMITS A DELETE PERMISSION TO THE RELEVANT RE-DISTRIBUTION SERVER"]; end; S111 --> S112; S112 --> S113[STOP THE OPERATION];
```

The flowchart is divided into two main sections by dashed lines. The left section, titled "PROCESS IN A RE-DISTRIBUTION SERVER", contains a box labeled S111 with the text "TRANSMITS A REGISTRATION DELETE REQUEST TO A MASTER SERVER". An arrow points from this box to a box in the right section. The right section, titled "PROCESS IN THE MASTER SERVER", contains a box labeled S112 with a list of three actions: "DELETES INFORMATION ABOUT THE RELEVANT RE-DISTRIBUTION SERVER", "RE-GENERATES AND DISTRIBUTES A DISTRIBUTION ROUTE TREE", and "TRANSMITS A DELETE PERMISSION TO THE RELEVANT RE-DISTRIBUTION SERVER". An arrow points from the S112 box to a final box labeled S113 with the text "STOP THE OPERATION".

FIG. 17

```

graph TD
    START([START]) --> S121[RECEIVES DISTRIBUTION ROUTE NOTIFICATION DATA]
    S121 --> S122{ARE THE DATA NEW?}
    S122 -- YES --> S123[SELECTS A PORT AND NOTIFIES AN UPPER-STREAM OF THE PORT]
    S122 -- NO --> S126[TRANSMITS THE DISTRIBUTION ROUTE NOTIFICATION DATA TO A LOWER RE-DISTRIBUTION SERVER]
    S123 --> S124[STORES THE INFORMATION IN A STREAM-ROUTE CORRESPONDENCE TABLE]
    S124 --> S125[SETS BASED ON THE RECEIVED DATA AND STARTS STREAM DISTRIBUTION]
    S125 --> S126
    S126 --> END([END])

```

FIG. 18

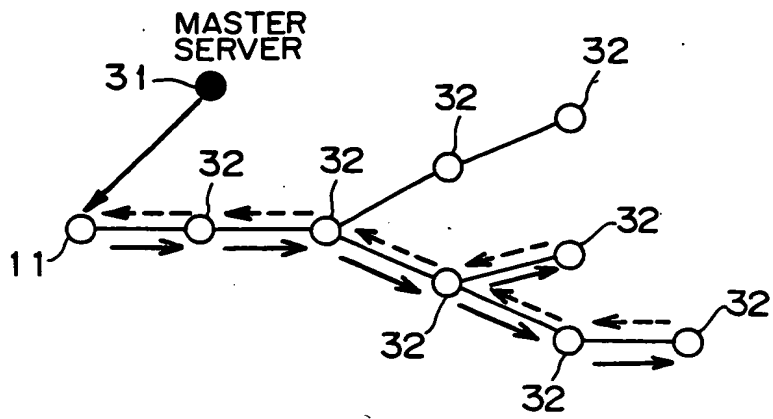


FIG. 19

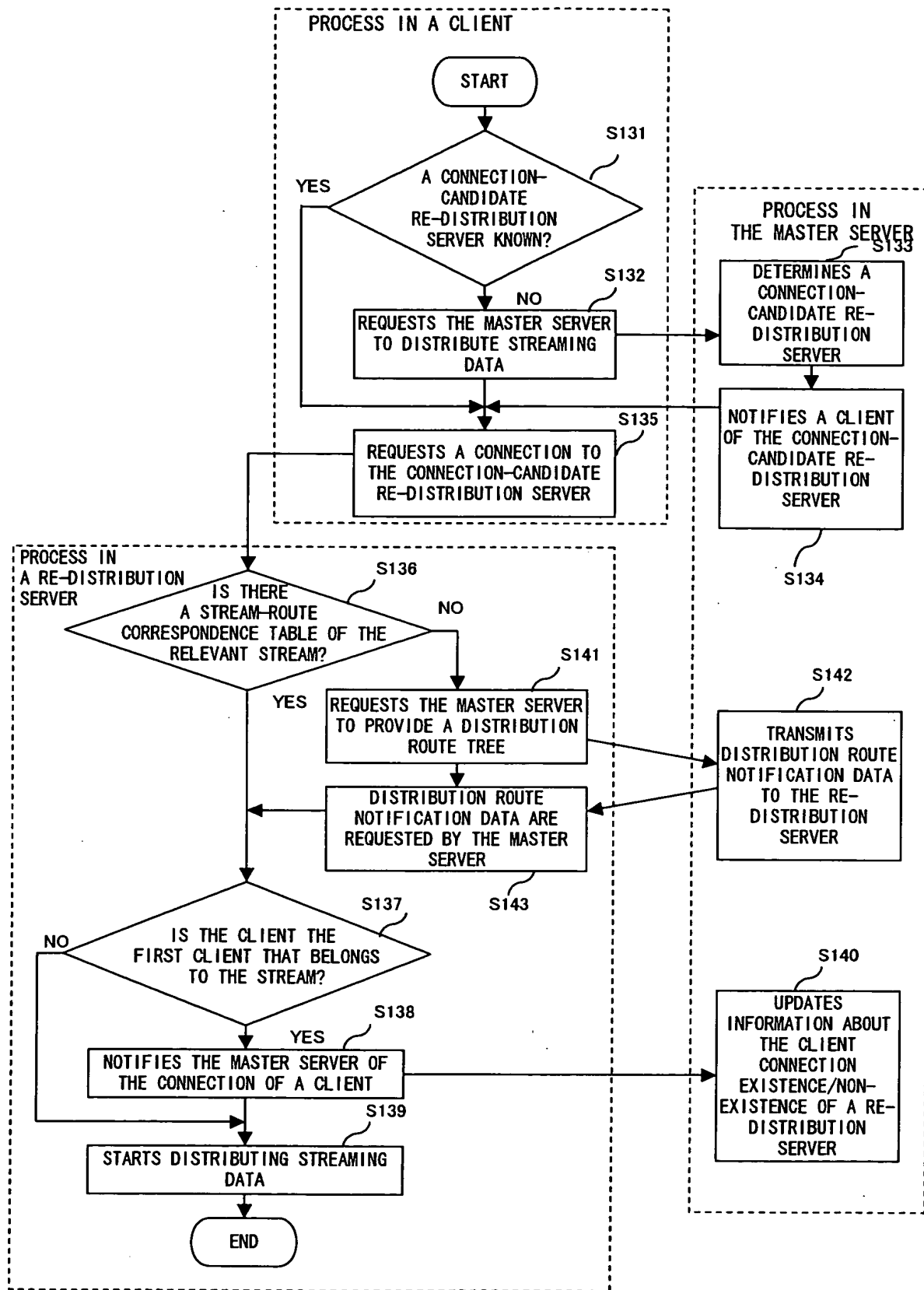


FIG. 20

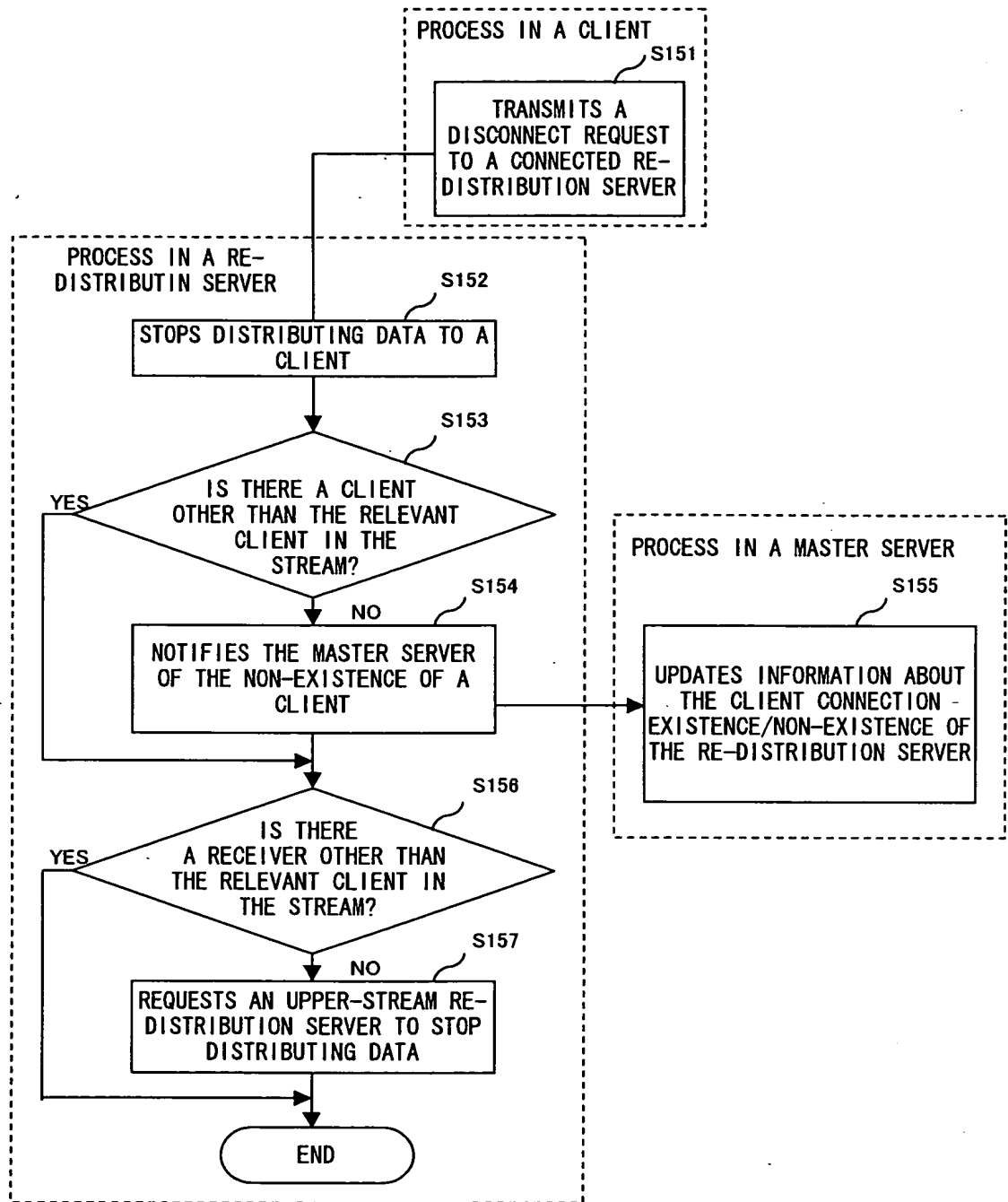


FIG. 21

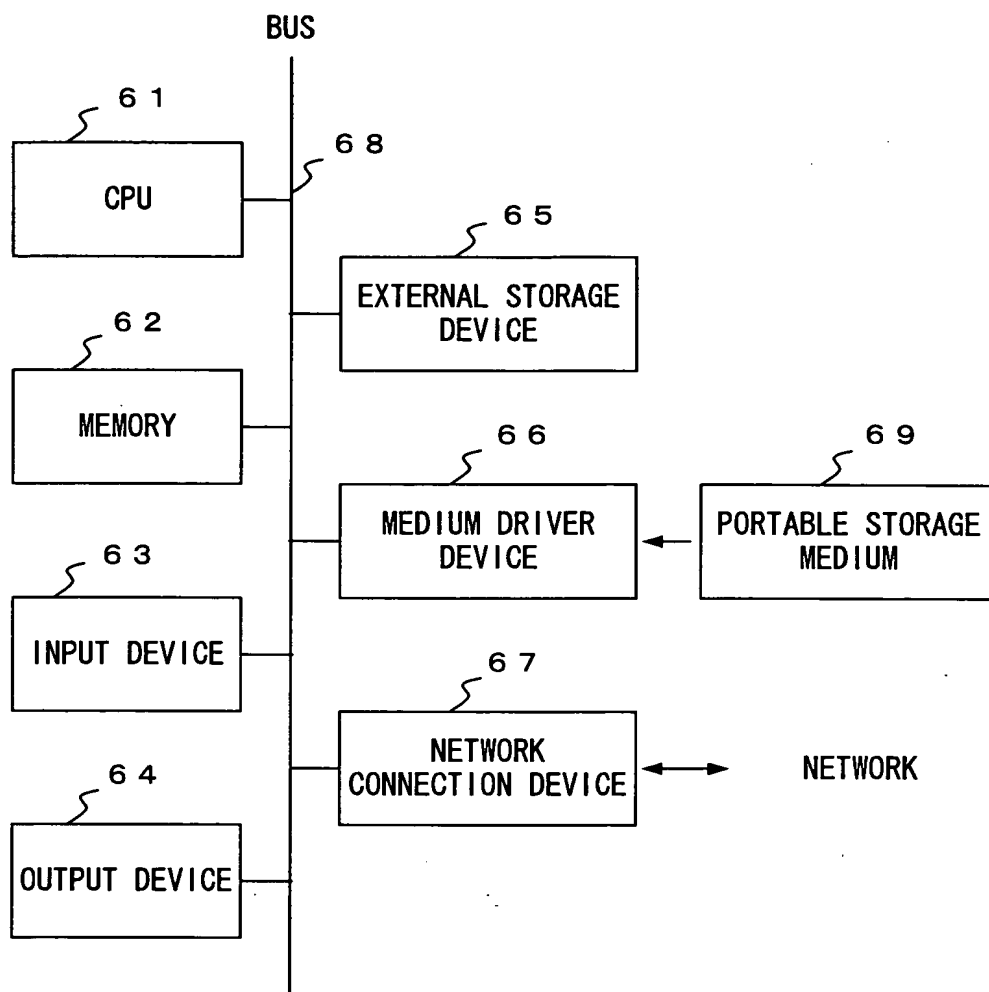


FIG. 22

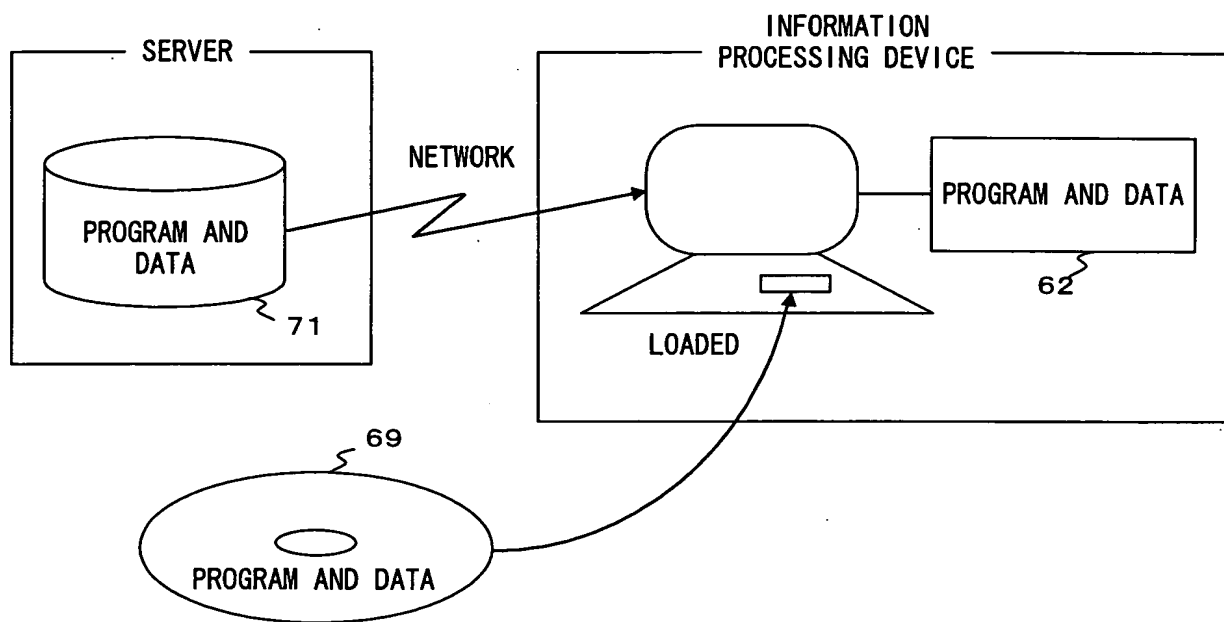


FIG. 23